RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/802,540A
Source: IFW16
Date Processed by STIC: 8/22/06

ENTERED

IFW16

RAW SEQUENCE LISTING DATE: 08/25/2006
PATENT APPLICATION: **US/10/802,540A** TIME: 12:04:38

Input Set : **N:\SSLM\J802540.raw**
Output Set: **N:\CRF4\08252006\J802540A.raw**

```
      1 <110> APPLICANT: Pepinsky, Blake
      2       Runkel, Laura
      3       Brickelmaier, Margot
      4       Whitty, Adrian
      5       Hochman, Paula
      6 <120> TITLE OF INVENTION: Polymer Conjugates of Interferon Beta-1a and Uses
      7 <130> FILE REFERENCE: BII-008.02
      8 <140> CURRENT APPLICATION NUMBER: US/10/802,540A
C-->  9 <141> CURRENT FILING DATE: 2004-03-26
     10 <150> PRIOR APPLICATION NUMBER: 09/832,658
     11 <151> PRIOR FILING DATE: 2001-04-11
     12 <150> PRIOR APPLICATION NUMBER: PCT/US99/24201
     13 <151> PRIOR FILING DATE: 1999-10-15
     14 <150> PRIOR APPLICATION NUMBER: 60/104,572
     15 <151> PRIOR FILING DATE: 1998-10-16
     16 <150> PRIOR APPLICATION NUMBER: 60/120,161
     17 <151> PRIOR FILING DATE: 1999-02-16
     18 <160> NUMBER OF SEQ ID NOS: 56
     19 <170> SOFTWARE: PatentIn ver. 3.2
     21 <210> SEQ ID NO: 1
     22 <211> LENGTH: 549
     23 <212> TYPE: DNA
     24 <213> ORGANISM: Mus sp.
     25 <400> SEQUENCE: 1
     26       tccgggggcc atcatcatca tcatcatagc tccggagacg atgatgacaa gatgagctac      60
     27       aacttgcttg gattcctaca aagaagcagc aattttcagt gtcagaagct cctgtggcaa     120
     28       ttgaatggga ggcttgaata ctgcctcaag gacaggatga actttgacat ccctgaggag     180
     29       attaagcagc tgcagcagtt ccagaaggag gacgccgcat tgaccatcta tgagatgctc     240
     30       cagaacatct ttgctatttt cagacaagat tcatctagca ctggctggaa tgagactatt     300
     31       gttgagaacc tcctggctaa tgtctatcat cagataaacc atctgaagac agtcctggaa     360
     32       gaaaaactgg agaaagaaga tttcaccagg ggaaaactca tgagcagtct gcacctgaaa     420
     33       agatattatg ggaggattct gcattacctg aaggccaagg agtacagtca ctgtgcctgg     480
     34       accatagtca gagtggaaat cctaaggaac ttttacttca ttaacagact tacaggttac     540
     35       ctccgaaac                                                            549
     37 <210> SEQ ID NO: 2
     38 <211> LENGTH: 183
     39 <212> TYPE: PRT
     40 <213> ORGANISM: Mus sp.
     41 <400> SEQUENCE: 2
     42       Ser Gly Gly His His His His His His Ser Ser Gly Asp Asp Asp Asp
     43        1               5                  10                  15
     44       Lys Met Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe
     45                   20                  25                  30
```

RAW SEQUENCE LISTING DATE: 08/25/2006
PATENT APPLICATION: US/10/802,540A TIME: 12:04:38

Input Set : N:\SSLM\J802540.raw
Output Set: N:\CRF4\08252006\J802540A.raw

```
46       Gln Cys Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys
47                35                  40                  45
48       Leu Lys Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu
49            50                  55                  60
50       Gln Gln Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu
51       65                  70                  75                  80
52       Gln Asn Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp
53                       85                  90                  95
54       Asn Glu Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile
55                   100                 105                 110
56       Asn His Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Lys Glu Asp Phe
57                115                 120                 125
58       Thr Arg Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly
59            130                 135                 140
60       Arg Ile Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser His Cys Ala Trp
61       145                 150                 155                 160
62       Thr Ile Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg
63                       165                 170                 175
64       Leu Thr Gly Tyr Leu Arg Asn
65                   180
67 <210> SEQ ID NO: 3
68 <211> LENGTH: 60
69 <212> TYPE: DNA
70 <213> ORGANISM: Homo sapiens
71 <400> SEQUENCE: 3
72       ttctccggag acgatgatga caagatgagc tacaacttgc ttggattcct acaaagaagc      60
74 <210> SEQ ID NO: 4
75 <211> LENGTH: 39
76 <212> TYPE: DNA
77 <213> ORGANISM: Homo sapiens
78 <400> SEQUENCE: 4
79       gccgctcgag ttatcagttt cggaggtaac ctgtaagtc                            39
81 <210> SEQ ID NO: 5
82 <211> LENGTH: 35
83 <212> TYPE: DNA
84 <213> ORGANISM: Homo sapiens
85 <400> SEQUENCE: 5
86       agcttccggg ggccatcatc atcatcatca tagct                                35
88 <210> SEQ ID NO: 6
89 <211> LENGTH: 35
90 <212> TYPE: DNA
91 <213> ORGANISM: Homo sapiens
92 <400> SEQUENCE: 6
93       ccggagctat gatgatgatg atgatggccc ccgga                                35
95 <210> SEQ ID NO: 7
96 <211> LENGTH: 87
97 <212> TYPE: DNA
98 <213> ORGANISM: Homo sapiens
99 <400> SEQUENCE: 7
```

RAW SEQUENCE LISTING DATE: 08/25/2006
PATENT APPLICATION: **US/10/802,540A** TIME: 12:04:38

Input Set : **N:\SSLM\J802540.raw**
Output Set: **N:\CRF4\08252006\J802540A.raw**

```
100       ccggagacga tgatgacaag atggcttacg ccgctcttgg agccctacaa gcttctagca      60
101       attttcagtg tcagaagctc ctgtggc                                          87
103 <210> SEQ ID NO: 8
104 <211> LENGTH: 60
105 <212> TYPE: DNA
106 <213> ORGANISM: Homo sapiens
107 <400> SEQUENCE: 8
108       gatctagcaa tgctgcctgt gctgccctcc tggctgcctt gaatgggagg cttgaatact      60
110 <210> SEQ ID NO: 9
111 <211> LENGTH: 52
112 <212> TYPE: DNA
113 <213> ORGANISM: Homo sapiens
114 <400> SEQUENCE: 9
115       gcctcaagga caggatgaac tttgacatcc ctgaggagat taagcagctg ca              52
117 <210> SEQ ID NO: 10
118 <211> LENGTH: 76
119 <212> TYPE: DNA
120 <213> ORGANISM: Homo sapiens
121 <400> SEQUENCE: 10
122       aattgaatgg gagggctgca gcttgcgctg cagacaggat gaactttgac atccctgagg      60
123       agattaagca gctgca                                                      76
125 <210> SEQ ID NO: 11
126 <211> LENGTH: 76
127 <212> TYPE: DNA
128 <213> ORGANISM: Homo sapiens
129 <400> SEQUENCE: 11
130       aattgaatgg gaggcttgaa tactgcctca aggacagggc tgcatttgct atccctgcag      60
131       agattaagca gctgca                                                      76
133 <210> SEQ ID NO: 12
134 <211> LENGTH: 51
135 <212> TYPE: DNA
136 <213> ORGANISM: Homo sapiens
137 <400> SEQUENCE: 12
138       aattgaatgg gaggcttgaa tactgcctca aggacaggat gaactttgac a                51
140 <210> SEQ ID NO: 13
141 <211> LENGTH: 43
142 <212> TYPE: DNA
143 <213> ORGANISM: Homo sapiens
144 <400> SEQUENCE: 13
145       tccctgagga gattgctgca gctgcagctt tcgctgcagc tga                         43
147 <210> SEQ ID NO: 14
148 <211> LENGTH: 78
149 <212> TYPE: DNA
150 <213> ORGANISM: Homo sapiens
151 <400> SEQUENCE: 14
152       cgccgcgttg accatctatg agatgctcgc taacatcgct agcattttca gacaagattc      60
153       atctagcact ggctggaa                                                    78
155 <210> SEQ ID NO: 15
156 <211> LENGTH: 78
```

RAW SEQUENCE LISTING DATE: 08/25/2006
PATENT APPLICATION: US/10/802,540A TIME: 12:04:38

Input Set : N:\SSLM\J802540.raw
Output Set: N:\CRF4\08252006\J802540A.raw

157 <212> TYPE: DNA
158 <213> ORGANISM: Homo sapiens
159 <400> SEQUENCE: 15
160 cgccgcattg accatctatg agatgctcca gaacatcttt gctattttcg ctgcagcttc 60
161 atctagcact ggctggaa 78
163 <210> SEQ ID NO: 16
164 <211> LENGTH: 72
165 <212> TYPE: DNA
166 <213> ORGANISM: Homo sapiens
167 <400> SEQUENCE: 16
168 ggaatgcttc aattgttgct gcactcctga gcaatgtcta tcatcagata aaccatctga 60
169 agacagttct ag 72
171 <210> SEQ ID NO: 17
172 <211> LENGTH: 72
173 <212> TYPE: DNA
174 <213> ORGANISM: Homo sapiens
175 <400> SEQUENCE: 17
176 ggaatgagac cattgttgag aacctcctgg ctaatgtcgc tcatcagata gcacatctgg 60
177 ctgcagttct ag 72
179 <210> SEQ ID NO: 18
180 <211> LENGTH: 44
181 <212> TYPE: DNA
182 <213> ORGANISM: Homo sapiens
183 <400> SEQUENCE: 18
184 ctagctgcaa aactggctgc agctgatttc accaggggaa aact 44
186 <210> SEQ ID NO: 19
187 <211> LENGTH: 69
188 <212> TYPE: DNA
189 <213> ORGANISM: Homo sapiens
190 <400> SEQUENCE: 19
191 ctagaagaaa aactggagaa agaagcagct accgctggaa aagcaatgag cgcgctgcac 60
192 ctgaaaaga 69
194 <210> SEQ ID NO: 20
195 <211> LENGTH: 51
196 <212> TYPE: DNA
197 <213> ORGANISM: Homo sapiens
198 <400> SEQUENCE: 20
199 tattatggga ggattctgca ttacctgaag gccaaggagt actcacactg t 51
201 <210> SEQ ID NO: 21
202 <211> LENGTH: 76
203 <212> TYPE: DNA
204 <213> ORGANISM: Homo sapiens
205 <400> SEQUENCE: 21
206 catgagcagt ctgcacctga aaagatatta tggggcaatt gctgcatacc tggcagccaa 60
207 ggagtactca cactgt 76
209 <210> SEQ ID NO: 22
210 <211> LENGTH: 87
211 <212> TYPE: DNA
212 <213> ORGANISM: Homo sapiens

RAW SEQUENCE LISTING DATE: 08/25/2006
PATENT APPLICATION: US/10/802,540A TIME: 12:04:38

Input Set : N:\SSLM\J802540.raw
Output Set: N:\CRF4\08252006\J802540A.raw

<400> SEQUENCE: 22
catgagcagt ctgcacctga aaagatatta tgggaggatt ctgcattacc tgaaggccgc 60
tgcatactca cactgtgcct ggacgat 87
<210> SEQ ID NO: 23
<211> LENGTH: 87
<212> TYPE: DNA
<213> ORGANISM: Homo sapiens
<400> SEQUENCE: 23
catgagcagt ctgcacctga aaagatatta tgggaggatt ctgcattacc tgaaggcaaa 60
ggagtacgct gcatgtgcct ggacgat 87
<210> SEQ ID NO: 24
<211> LENGTH: 50
<212> TYPE: DNA
<213> ORGANISM: Homo sapiens
<400> SEQUENCE: 24
cgtcagagct gaaatcctag caaactttgc attcattgca agacttacag 50
<210> SEQ ID NO: 25
<211> LENGTH: 166
<212> TYPE: PRT
<213> ORGANISM: Homo sapiens
<400> SEQUENCE: 25

```
Met Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln
 1               5                  10                  15
Cys Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu
            20                  25                  30
Lys Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln
        35                  40                  45
Gln Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln
    50                  55                  60
Asn Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp Asn
65                  70                  75                  80
Glu Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn
                85                  90                  95
His Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Lys Glu Asp Phe Thr
            100                 105                 110
Arg Gly Ala Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg
        115                 120                 125
Ile Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser His Cys Ala Trp Thr
    130                 135                 140
Ile Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Arg Ile Asn Arg Leu
145                 150                 155                 160
Thr Gly Tyr Leu Arg Asn
                165
```

<210> SEQ ID NO: 26
<211> LENGTH: 166
<212> TYPE: PRT
<213> ORGANISM: Homo sapiens
<400> SEQUENCE: 26

```
Met Ala Tyr Ala Ala Leu Gly Ala Leu Gln Ala Ser Ser Asn Phe Gln
```

VERIFICATION SUMMARY DATE: 08/25/2006
PATENT APPLICATION: **US/10/802,540A** TIME: 12:04:39

Input Set : **N:\SSLM\J802540.raw**
Output Set: **N:\CRF4\08252006\J802540A.raw**

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date

STATISTICS SUMMARY DATE: 08/25/2006
PATENT APPLICATION: **US/10/802,540A** TIME: 12:04:39

Input Set : **N:\SSLM\J802540.raw**
Output Set: **N:\CRF4\08252006\J802540A.raw**

Application Serial Number: US/10/802,540A
Alpha or Numeric or Xml: Numeric
Application Class:
Application File Date: 03-26-2004
Art Unit: IFW16
Software Application: PatentIN3.2
Total Number of Sequences: 56
Total Nucleotides: 1927
Total Amino Acids: 5495
Number of Errors: 0
Number of Warnings: 0
Number of Corrections: 1

MESSAGE SUMMARY

271 C: 1 (Current Filing Date differs)